Path

vuln_react_app/src/MyComponents/React_ref_innerHTML_xss.js saveData() gets called whenever the save button gets clicked.

The issue right here is that innerHTML gets used and as such it is possible to get insert XSS payload on name, email and website.

```
async saveData() {
             const name = document.getElementById('name').value;
             const email = document.getElementById('email').value;
             const website = document.getElementById('website').value;
             const request = await fetch(`${window.location.origin}/rea
                method: 'POST',
                headers: {
                     'Content-Type': 'application/json',
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                     'Accept': 'application/json'
                 },
                 body: JSON.stringify({ name: name, email: email, website: website })
             const response = await request.json();
             this.nameRef.current.innerHTML = response.name;
             this.emailRef.current.innerHTML = response.email;
             this.websiteRef.current.setAttribute('href', response.website);
             this.websiteRef.current.innerHTML = response.website;
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             document.getElementById('update').setAttribute('hidden', true);
             document.getElementById('updated').removeAttribute('hidden');
40
```

In this case, a harmless XSS payload was used so that whenever a link gets clicked, a confirm button will pop.

React ref-innerHTML XSS

ReactJS provides escape hatch to provide direct access to DOM elements. With direct access application can perform the desired operation, without requiring explicit support from React. There are two escape hatches provided by ReactJS which give access to native DOM elements: findDOMNode and createRef. In this exercise application is using refs with innerHTML property to display user supplied input which makes it vulnerable to XSS.



